



North Carolina Department of Environment and Natural Resources

Division of Waste Management

Pat McCrory
Governor

Dexter R. Matthews
Director

John E. Skvarla, III
Secretary

STATE OF NORTH CAROLINA
DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES
DIVISION OF WASTE MANAGEMENT
SOLID WASTE SECTION

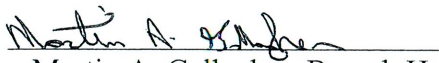
**PERMIT TO OPERATE A SEPTAGE LAND
APPLICATION SITE**

Eastside Septic Cleaning
B.C. Raynor
1018 Hwy 70 West
Garner, NC 27529

is hereby permitted to operate Septage Land and Application Site with permit # **SLAS-92-01** located on SR#2703 in Wake County in approximate position 35.64836° N latitude and -78.60078° W longitude. This site is permitted only for operations that are conducted in accordance with the representations made in the approved application, with all conditions attached to this permit, and with all of the provisions of 15A NCAC 13B.0800 -- Septage Management. Failure to operate as permitted may result in the Department suspending or revoking this permit, initiating action to enjoin the unpermitted operation, imposing administrative penalties, or invoking any other remedy as provided in Chapter 130A, Article 1, Part 2 of the North Carolina General Statutes.

This permit shall be reviewed annually to determine if soil test results and management activities are in compliance with the Septage Management Rules and the conditions of this permit. Modifications, where necessary, shall be made in accordance with rules in effect at the time of review.

Date Issued 1/8/2013


Martin A. Gallagher, Branch Head
Composting & Land Application Branch

CONDITIONS OF OPERATING PERMIT

1. This permit shall become void if the soils fail to adequately assimilate the septage and shall be rescinded unless the site is maintained and operated in a manner which will protect the assigned water quality standards both surface and ground waters.
2. This site shall be operated and maintained in accordance with the nutrient management plan submitted by B.C. Raynor and approved by the Division of Waste Management. The 34-acre site shall be divided into five fields. **Fields 5A (7.2 acres) and 6C (3.3 acres) shall remain in established fescue.** The reseeding rate for fescue is 5 to 8 pounds per acre (with a seed drill) or 7 to 10 pounds per acre (using a broadcast seeder) in September or October. At least two fescue harvests will be made each year. **Fields 5B (5.8 acres), 6A (8.5 acres) and 6B (9.2 acres) shall be managed in a wheat and millet rotation.** Millet shall be planted between May and July of each year at a seeding rate of 20 pounds per acre and shall be cut and removed prior to small grain planting. Wheat shall be planted at a seeding rate of 100 to 120 pounds per acre between September and October of each year and shall be harvested as grain or hay between May and June of each year. The 30-day waiting period between the last application of septage and the harvest of a crop shall be met by alternating septage application, the waiting period and harvest among the permitted fields on the site. Phosphorus and potassium shall be added to all permitted fields in accordance with the soil test results for the crops grown. The wheat fields shall be fertilized with approximately 20 pounds nitrogen per acre in September or October of each year. Any fields that do not receive septage in a given year shall receive all nutrients as fertilizer based on the soil test results. All discharges shall be at locations on the site consistent with the crop rotation in the approved plan.
3. This site shall be operated and maintained in accordance with the erosion and runoff control plan submitted by B.C. Raynor in such a manner as to prevent the migration of wastes off of the designated waste receiving site. All fescue buffers and wooded areas surrounding the permitted fields shall remain undisturbed. Phosphorus and potassium fertilizers shall be applied to the buffers in accordance with soil test results for the crops grown each year. Any site improvements noted in the plan must be installed within 30 days of plan approval. The installation of groundwater monitoring wells shall be required as deemed necessary by the Division.

4. The issuance of this permit does not preclude the Permittee from complying with any and all statutes, rules, regulations, or ordinances that may be imposed by other local, state, and federal government agencies which have jurisdiction. It is the responsibility of the Permittee to be in compliance with the Federal Regulations listed in the Code of Federal Regulations, 40 CFR Part 503.
5. This permit may be modified or reissued at any time to incorporate any conditions, limitations and/or monitoring requirements the Division deems necessary to adequately protect the environment and public health.
6. **This site is only permitted for the land application of domestic septage and grease septage.** Domestic septage pH shall be raised to 12 or higher by alkali addition and, without the addition of additional alkali, shall remain at 12 or higher for 30 minutes prior to land application. Grease septage or grease septage mixed with domestic septage shall be raised to pH 12 or higher by alkali addition and, without the addition of additional alkali, shall remain at 12 or higher for 2 hours prior to land application.
7. **This site contains approximately 34 acres that are available for land application of septage.** The maximum annual application rate for fescue Fields 5A (7.2 acres) and 6C (3.3 acres) shall be 41,500 gallons per acre per year, for a total, maximum annual application rate of 435,750 gallons. The maximum annual application rate for wheat/millet Fields 5B (5.8 acres), 6A (8.5 acres) and 6B (9.2 acres) shall be 50,000 gallons per acre per year, for a total, maximum annual application of 1,175,000 gallons. **The total, maximum annual application for the permitted site shall be 1,610,750 gallons.** This application rate assumes equal septage distribution, on an annual basis, over the entire permitted area. Application amounts to the fields shall not exceed the maximum annual application rate or the monthly rates as listed in the approved nutrient management plan.
8. An approved above ground septage detention system with a minimum design capacity of 30,975 gallons shall be available prior to operation of this site unless an approved wastewater treatment plant is available for use during periods of adverse weather. The storage capacity may be adjusted if it is demonstrated during the operation of the site that this volume of storage is inappropriate.
9. Only the area designated on the attached site map(s) shall be utilized for septage disposal. Each load of septage discharged at the site shall be distributed from a moving vehicle in such a manner that there is no standing water when the discharge is complete.

10. Septage shall not be applied during any precipitation event, or if there is standing water on the soil surface, if the soil surface is frozen, or if the soil surface is snow covered. The Permittee shall consider pending weather conditions when making the decision to land apply in order to prevent any discharge of septage outside of the permitted boundary.
11. Septage shall not be applied during periods of high soil moisture. Septage applications that will result in ruts greater than three inches in the soil surface are prohibited.
12. Any discharge of septage outside of the permitted boundaries via runoff, aerial drift, etc. is prohibited.
13. This permit shall become voidable unless the land application activities are carried out in accordance with the conditions of this permit and in the manner approved by this Division. No one other than the Permittee or an employee of the firm named in this permit shall discharge septage at this site without prior appropriate notification and written approval from the Division.
14. Prior to any transfer of this land, a notice shall be given to the new owner that gives full details of the materials applied or incorporated at this site. The Division shall be notified prior to site closure. This permit is non-transferable.
15. **This permit shall expire on January 8, 2018.** Modifications, when necessary, shall be made in accordance with the rules in effect at the time of renewal. An application for permit renewal shall be submitted at least ninety (90) days prior to the permit renewal date. A septage application log for the period of time this permit was valid shall be submitted along with an application for permit renewal or modification. The information required in the log is described in Rule 15A NCAC 13B .0838 (e)(1) of the NC Septage Management Rules and the Code of Federal Regulations, 40 CFR Part 503.17 (b).
16. Records shall be kept in accordance with 40 CFR 503.17(b). These records shall be made available to a representative of the Division upon request.
17. Any duly authorized officer, employee, or representative of the Division may, upon presentation of credentials, enter and inspect any property, premises, or place on or related to the disposal site and facility at any reasonable time for the purpose of determining compliance with this permit; may inspect or copy any records that must be kept under the conditions of this permit; or may obtain samples of groundwater, surface water, or leachate.

18. Field separations in the nutrient management plan and all pertinent setbacks shall be clearly located on the site. Boundaries of the permitted septage land application fields shall be clearly marked on the ground.
19. The areas that can be used for land application of septage shall be maintained at least 500 feet from any existing wells, residences, places of business, or places of public assembly. Septage shall not be disposed of within 50 feet of any property line, within 100 feet of any ditch or within 200 feet of any surface water unless specified otherwise.



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January 8, 2013

Mr. B.C. Raynor
Eastside Septic Cleaning
1018 Hwy 70 West
Garner, NC 27529

**RE: SLAS permit renewal
Eastside Septic Cleaning
SLAS-92-01
SR#2703 in Wake County**

Dear Mr. Raynor:

The NC Division of Waste Management has reviewed your application to renew a Septage Land Application Site permit in Wake County. Your application has been approved and your permit, # **SLAS-92-01**, is enclosed. If you have any questions about your permit, we'll need the number in order to answer your questions.

Please read all of your permit conditions carefully. Your nutrient management and soil erosion and runoff control plans have been included in your permit's conditions. In particular, review Permit Condition 15, which states that you will need to submit septage application logs for your site in order to renew your permit. These logs need to cover the entire time your current permit is valid. For details on the information you should include, consult the NC Septage Management Rule 15A NCAC 13B .0838(e)(1) and the Federal register's 40CFR Part 503.17(b). This permit condition also states that this permit is valid until January 8, 2018. If you have any questions, please ask for assistance as rule violations could expose you to administrative penalties.

Please note that to land apply industrial or commercial septage at a permitted septage disposal site you must have prior approval from the NC Division of Waste Management. The waste must be sampled prior to being removed from the system. Generally, the Division will request that you have a waste analysis run on septage from each commercial or industrial septage generator before that type of septage is approved for land application.

Use of a land application site or septage detention or treatment facility that is not permitted may result in administrative penalties up to \$15,000 per violation in accordance with NC General Statute 130A-22.

If you have any questions, please contact me at (910) 433-3352 or Martin Gallagher at (919) 707-8280.

Sincerely,

Connie Wylie, Soil Scientist
Composting & Land Application Branch

APPLICATION FOR A PERMIT TO OPERATE A SEPTAGE LAND APPLICATION SITE

North Carolina Department of Environment and Natural Resources
Division of Waste Management – Solid Waste Section
1646 Mail Service Center, Raleigh, NC 27699-1646

REV
1/14/12

I. Site and Operator Information

1. Applicant

Address

Phone

B.C. RAYNOR
1018 Hwy 70 west
Corners, N.C. 27529
919-5726145

2. Contact person for site operation (if different from applicant):

Title or position

Address

Phone

same as above

3. Landowner

Address

B.C. RAYNOR
1018 Hwy 70 west
Corners, N.C. 27529

4. Site Location:

County

Wake

State Road Number

203 New Bethel Church Road

Directions to site:

Hwy 50 south to New Bethel Ch Rd (SR 203) Turn left, cross bridge, to 5 miles. Turn rt on gravel road, go 3/4 mile to gravel road at site.

5. Indicate whether request is: new _____ renewal ☒ modification _____

For a permit renewal or modification, provide the following information:

Existing site permit number: 92-01

permit expiration date: April 26, 2012

6. Number of acres meeting the requirements of the N.C. Septage Management Rules: 33.95 acres.

7. Substances other than septage or grease trap pumpings previously disposed of on the site:

(a) None ☒, or (b) Attach a list indicating other substances, the amounts discharged, and the dates of discharge.

8. Attach written, notarized landowner authorization to operate a septage disposal site signed by the landowner (if the permit applicant does not own the property). **If a corporation owns the land use a corporate landowner authorization form. If limited liability company owns the land, use a limited liability company landowner authorization form.** applicant owns property.

9. Attach site evaluation report, including aerial photograph and soil analysis with metals results, unless the Division prepared the report. on file

10. Attach a vicinity map (county road map showing site location). on file

(over)

II. Site Management Information:

The following information shall be included with the application form:

1. Nutrient Management Plan enclosed
2. Soil Erosion and Runoff Control Plan enclosed
3. Alternative plan for disposal (detention facility permit number or wastewater treatment plant authorization): Detention Facility Permit # SDTF 92-02, Wastewater Treatment Plant permit enclosed
4. Types of septage proposed to be discharged at the site (check all that apply):
 - (a) Domestic septage pumped from septic tanks ✓
 - (b) Grease trap pumpings ✓
 - (c) Portable toilet waste _____
 - (d) Commercial / Industrial septage _____
5. Proposed treatment method of each type of septage to be land applied (use additional paper to explain if necessary): Domestic septage pH shall be raised to 12 by alkali addition and without the addition of extra alkali shall remain at pH 12 for 30 minutes prior to land application. Grease septage mixed with domestic septage shall be raised to pH 12 by alkali addition and without the addition of extra alkali shall remain at pH 12 for 2 hrs prior to land application.
6. Proposed method of applying septage to land, including septage distribution plan if required * (use additional paper to explain if necessary): Only the areas designated on the maps will be used for septage disposal. Each load of septage discharged on the site shall be distributed from a moving vehicle in such a manner as to have no standing water when the discharge is complete. Septage will not be discharged during periods of high moisture in the soil.
7. Demonstration from the appropriate state or federal government agency that the land application site complies with the Endangered Species Law ** or if any part of the site specified is not agricultural land (use additional paper to explain if necessary): all agricultural land.

III. Certification

I hereby certify that:

1. The information provided on this application is true, complete, and correct to the best of my knowledge.
2. I have read and understand the N.C. Septage Management Rules, and
3. I am aware of the potential consequences, including penalties and permit revocation, for failing to follow all applicable rules and the conditions of a Septage Land Application Site permit.

B. C. Raynor
Signature**

1-10-2012
Date

B. C. RAYNOR
Print name

owner
Title

Note: This application will not be reviewed until all parts of the application are complete.

* Refer to Section .0837(e) of the N.C. Septage Management Rules.

** Refer to Section .0837(g) of the N.C. Septage Management Rules.

***Signature of company official required.

new
1/14/12

**EASTSIDE SEPTIC CLEANING
B.C. RAYNOR
1018 HIGHWAY 70 WEST
GARNER, NC 27529**

A. General Information

1. Septage will be sampled at least 3 times per year for waste analysis. These samples will be used to monitor nutrient loadings.
2. Fields and acreage are as follows:

5A	- 7.16 acres	7.2
5B	- 5.81 acres	5.8
6A	- 8.54 acres	8.5
6B	- 9.20 acres	9.2
6C	- 3.24 acres	3.3
3. The dominant soil series at the site is Appling gravelly sandy loan, Appling sandy loan and Cecil Sandy loan (2 to 6% slopes).
4. Septage will not be applied where the site is untrafficable (Untrafficable is defined as soil that will allow a loaded truck to leave a depression in the sod greater than 3 inches in depth).
5. Septage storage shall be provided to account for the average volume of septage pumped per week or it will be taken to a waste treatment plant when conditions are not appropriate for land application.

B. Crops to be grown and approximate planting times:

Field 5A, 6C and all buffer zones are planted in fescue. The seeding rate for fescue on tilled soils in September or October is 10-15 pounds per acre using a seed drill or 15-20 pounds per acre using a broadcast seeder. Reseeding fescue fields in September or October with a seed drill uses 5 to 8 pounds per acre or 7-10 pounds per acre using a broadcast seeder.

Fields 5B, 6A and 6B are planted in wheat in September or October at the rate of 2-3 bushels per acre (120-180 lbs/acre) using a seed drill on tilled soils or a no till drill on non-tilled soils. The wheat will be harvested in May or June as hay or seed and the fields will then be planted in millet in May, June or July. The seeding rate for millet is 20 pounds per acre using a broadcast seeder on tilled soils or a no till drill on non-tilled soils.

C. Nitrogen needs for crops grown:

R.Y.E. for fescue on soils is 2.7 tons/acre
N. App. Rate = 40 lbs N/dry ton
Lbs N/acre = 108

R.Y.E. for wheat on soils is 35 bu/acre
N. App. Rate = 1.7 lbs N/bu
Lbs N/acre = 59.5

R.Y.E. for millet on soils is 45 bu/acre
N. App. Rate = 2.5 lbs N/bu
Lbs N/acre = 112.5

D. Relative application rate for fescue fields 5A and 6C

Month	Rate
January	Low
February	Low
March	Medium
April	High
May	Medium
June	Low
July	Low
August	Low
September	Low
October	Medium
November	Low
December	Low

Low = 5,000 gallons, Medium = 10,000 gallons and High = 15,000 gallons

E. Relative application rate for the wheat and millet fields 5B, 6A, 6B

Month	Rate
January	Low
February	Low
March	Low
April	Low
May	Low
June	High
July	High
August	Medium
September	Medium
October	Low
November	Medium
December	Low

Low = 5,000 gallons, Medium = 10,000 gallons and High = 15,000 gallons

Note: The cumulative application rate is not to exceed the permitted application rate.
During April and May the treated septage can be applied to the fescue fields at the listed rate.

F. Application Method:

The preceding information is based on treated septage being evenly applied over the entire permitted site by a spreader truck or tractor tank spreader.

G. Additional Fertility Requirements:

In the fescue fields and fescue buffer areas, phosphorus and potassium will be added in accordance with the soil test results.

Approximately 20 lbs N per acre will be applied in September or October to the wheat as a starter fertilizer. All phosphorous and potassium will be added based on soil test results for the fields. Any additional nitrogen needed by the wheat that is not provided by the treated septage can be added as commercial nitrogen.

Nutrients will be applied based on a soil test to wheat/millet fields not receiving treated septage in a given year.

H. Harvest of crops and their use:

The last application of treated septage will be made to the wheat in March, April or May according to maturity. The wheat will be harvested as hay or seed in May or June. Once the wheat is harvested, the residue will be removed from the fields. The millet will be planted following the removal of the wheat residue in May, June or early July. The millet will be harvested when it is at least 24 inches tall and removed from the fields. The residue from wheat and millet will be spread on non-application fields on other farms and used for mulch.

The fescue will be cut and removed whenever it reaches approximately 24 inches in height. The first cutting will be made in April. If the season is good, another cutting may be made in May. During the season, each time the fescue reaches 24 inches in height it will be cut and removed. The fescue residue will be spread on non-application fields on other farms and used for mulch. From late September or October when the wheat is seeded until May or June when the wheat is harvested, the entire site will be available for treated septage application.

*Harvest shall occur prior to 24" If lodging from and application occurs.
CSW*

SOIL EROSION AND RUNOFF CONTROL PLAN

The farm has a conservation plan with the NRCS in order to come into compliance with the Farm Bill. It addresses soil erosion concerns on this farm and should be followed as outlined. The land where the treated septage is being applied has buffers and trees around the perimeter, which should also help to keep the treated septage from migrating off the site.

Submitted by: B. C. Raynor
B.C. Raynor

Date: January 10, 2012

Preparation, Assistance by:

Sheila A. Jordan
Agricultural Extension Agent
4001-E Carya Drive
Raleigh, North Carolina 27610-2914
(919) 250-1106

Updated by:

B.C. Raynor on January 10, 2012

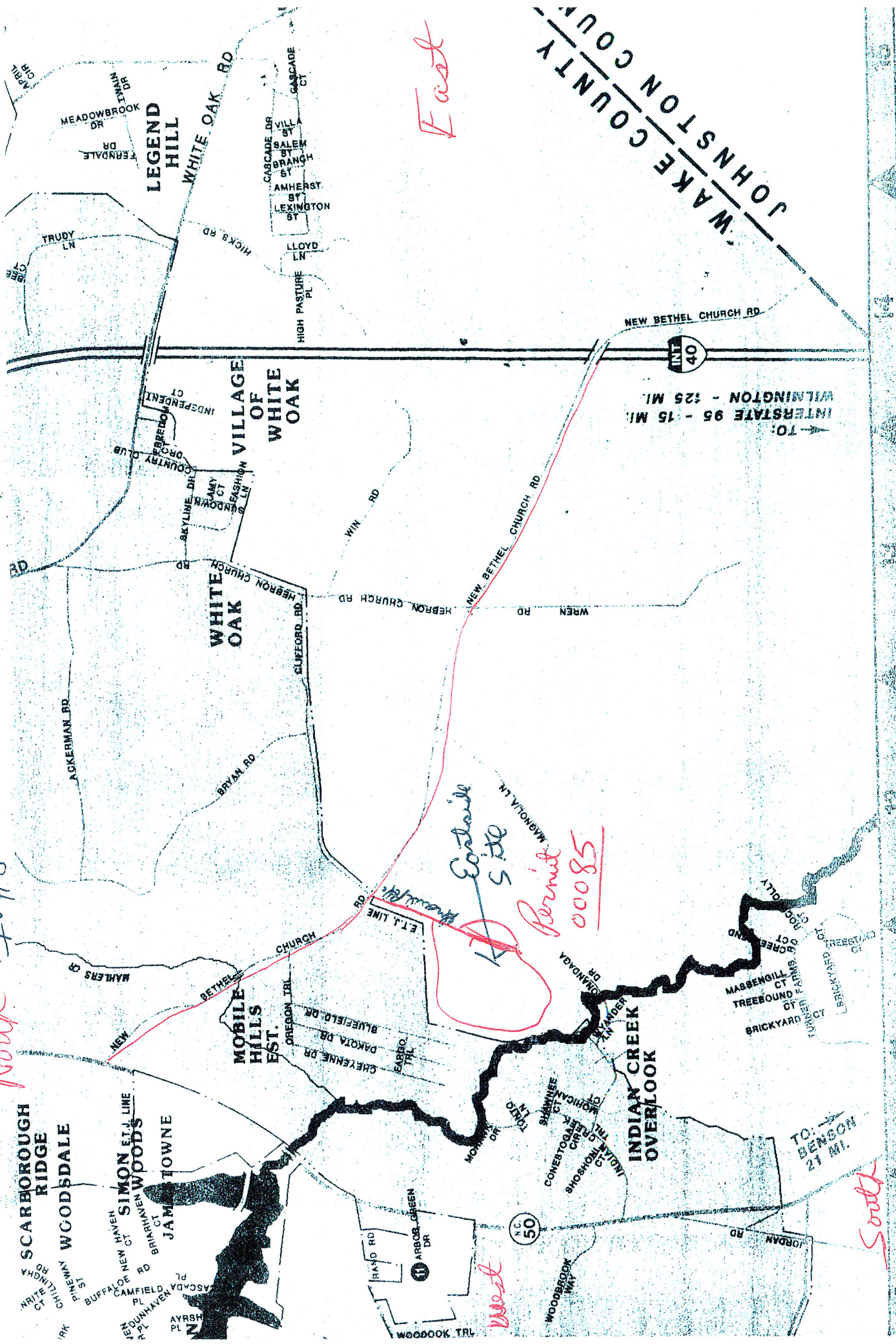
The 30-day waiting period between the last application of septage and the harvest of a crop shall be met by alternating septage applications the waiting period and harvest among the permitted fields on the site.
B.C. Raynor 1-10-12

North To #8

East

South

To #8



JOHNSTON COUNTY
WAKE COUNTY

TO: WILMINGTON - 15 MI.
INTERSTATE 95 - 125 MI.

TO: BENSON
21 MI.

SCARBOROUGH RIDGE
WOODSDALE
SIMON ET AL LINE
JAM TOWNE
JE DUNN HAVEN
CAMFIELD PL
ASCADA PL
AYRSH PL

MOBILE HILLS EST.

INDIAN CREEK OVERLOOK

BRICKYARD
TREESOUND CT
MASSENGILL CT
SCARBOROUGH CT
ROCKHILL CT
GOSWORTHY CT

LEGEND HILL
WHITE OAK RD
MEADOWBROOK DR
FERNDALE DR
TRUDY LN
HICKS RD
CASCADIA DR
VILLA ST
SALEM ST
BRANCH ST
AMHERST ST
LEXINGTON ST
LLOYD LN
HIGH PASTURE PL

VILLAGE OF WHITE OAK

Estate Site

Permit 00085

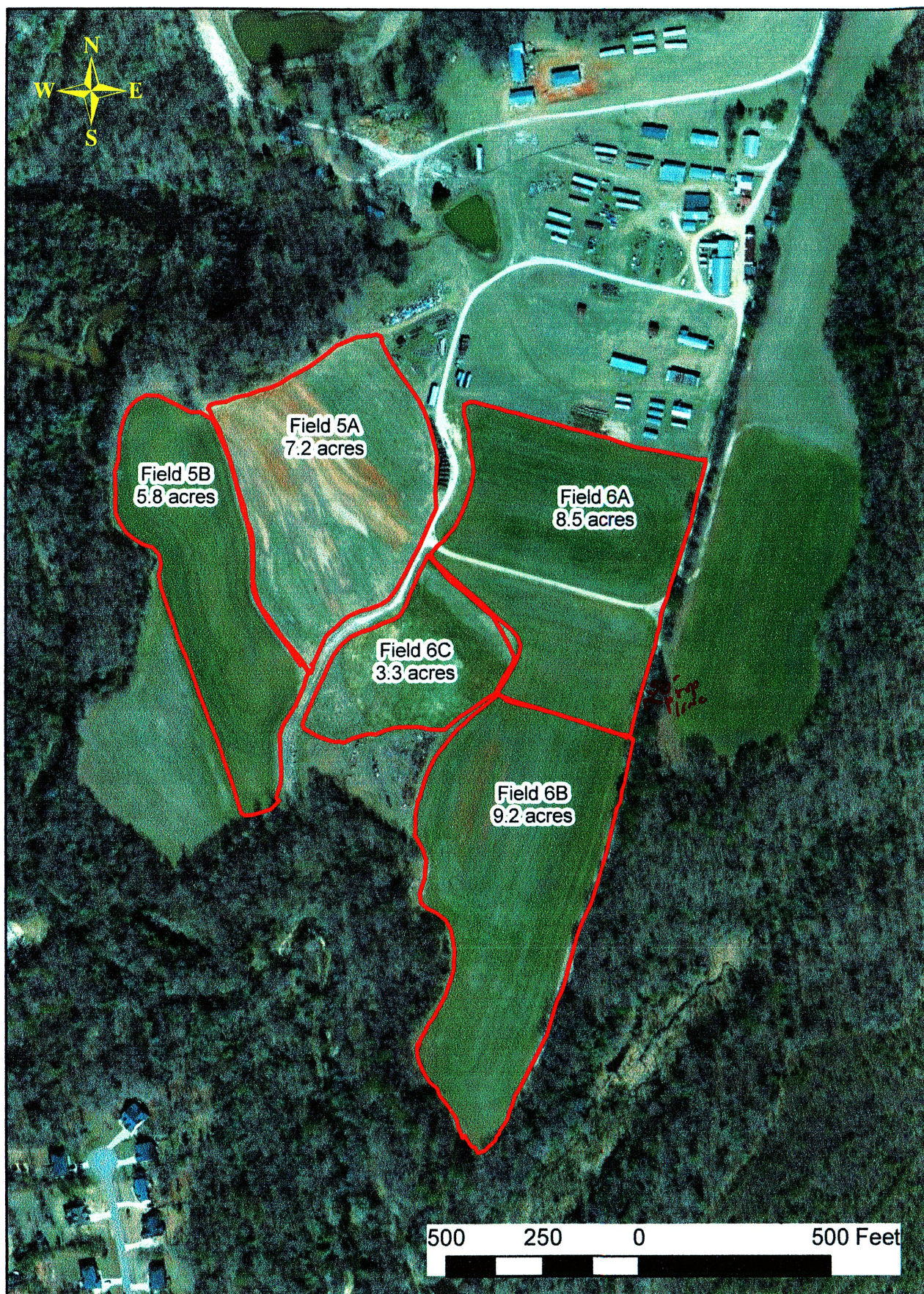
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SLAS-92-01

35.64836°N latitude
-78.60078°W longitude



Source: Bing Maps aerial imagery, ESRI, (c) 2010 Microsoft Corporation and its data suppliers; site boundary, NC DENR Division of Waste Management.